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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/756,096	01/08/2001	Lloyd G. Mitchell	A31304-B-A-B	5647

21003 7590 09/26/2002

BAKER & BOTTS  
30 ROCKEFELLER PLAZA  
NEW YORK, NY 10112

EXAMINER

LACOURCIERE, KAREN A

ART UNIT

PAPER NUMBER

1635

DATE MAILED: 09/26/2002

Please find below and/or attached an Office communication concerning this application or proceeding.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTY. DOCKET NO.
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EXAMINER
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ART UNIT	PAPER NUMBER
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DATE MAILED:

13

Please find below and/or attached an Office communication concerning the above identified application.

Commissioner of Patents and Trademarks

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures. To be fully responsive to this letter, this application must comply with all of the requirements set forth in 37 CFR 1.821 through 1.825.

Applicant is given THIRTY DAYS from the mailing date of this letter within which to comply with the sequence rules, 37 CFR 1.821 - 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136. In no case may an applicant extend the period for reply beyond the SIX MONTH statutory period. Direct the reply to the undersigned. Applicant is requested to return a copy of the attached Notice to Comply with the reply.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen A. Lacourciere whose telephone number is (703) 308-7523. The examiner can normally be reached on Monday to Friday from 8:30 a.m. to 4:30 p.m.

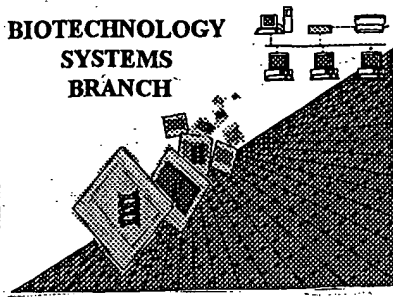
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John LeGuyader, can be reached on (703) 308-0447. The fax phone number for this Group is (703) 308-4242.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Karen A. Lacourciere  
September 18, 2002

  
KAREN LACOURCIERE  
PATENT EXAMINER

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



DAC 0380  
4770  
0580

# RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/756,096  
Source: OIPF  
Date Processed by STIC: 1/8/2002

RECEIVED

MAY 22 2002

TECH CENTER 1600/2900

#12  
Raw  
Seq.

FEB 25 2002

RECEIVED  
error

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

RECEIVED

APR 03 2002

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212. OFFICE OF PETITIONS

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission

User Manual - ePAVE)

2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202

3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name,  
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

Or

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,  
2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,  
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

RECEIVED

MAY 22 2002

## Raw Sequence Listing Error Summary

TECH CENTER 1600/2900

ERROR DETECTEDSUGGESTED CORRECTIONSERIAL NUMBER: 09/256,096

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1           Wrapped Nucleics  
              Wrapped Aminos  
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2           Invalid Line Length  
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3           Misaligned Amino  
              Numbering  
The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4           Non-ASCII  
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5           Variable Length  
Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6           PatentIn 2.0  
              "bug"  
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7           Skipped Sequences  
              (OLD RULES)  
Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8           Skipped Sequences  
              (NEW RULES)  
Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9           Use of n's or Xaa's  
              (NEW RULES)  
Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10           Invalid <213>  
              Response  
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11           Use of <220>  
Sequence(s) 92 missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12           PatentIn 2.0  
              "bug"  
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13           Misuse of n  
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

OIPF

## RAW SEQUENCE LISTING

DATE: 01/08/2002

PATENT APPLICATION: US/09/756,096

TIME: 15:21:15

Input Set : A:\09756096SEQUENCELISTING.txt

Output Set: N:\CRF3\01082002\I756096.raw

Does Not Comply  
Corrected Diskette Needed

*pp 6-9*

4 <110> APPLICANT: Mitchell, Lloyd G.  
 5 Garcia-Blanco, Mariano A.  
 6 Puttaraju, Madaiah  
 7 Mansfield, Gary S.  
 10 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR USE IN  
 11 SPLICEOSOME MEDIATED RNA TRANS-SPLICING  
 14 <130> FILE REFERENCE: A31304-B-A-B 072874.0135  
 16 <140> CURRENT APPLICATION NUMBER: 09/756,096  
 17 <141> CURRENT FILING DATE: 2001-01-08  
 19 <150> PRIOR APPLICATION NUMBER: 09/158,863  
 20 <151> PRIOR FILING DATE: 1998-09-23  
 22 <150> PRIOR APPLICATION NUMBER: 09/133,717  
 23 <151> PRIOR FILING DATE: 1998-08-13  
 25 <150> PRIOR APPLICATION NUMBER: 09/087,233  
 26 <151> PRIOR FILING DATE: 1998-05-28  
 28 <150> PRIOR APPLICATION NUMBER: 08/766,354  
 29 <151> PRIOR FILING DATE: 1996-12-13  
 31 <150> PRIOR APPLICATION NUMBER: 60/008,317  
 32 <151> PRIOR FILING DATE: 1995-12-15  
 34 <160> NUMBER OF SEQ ID NOS: 105  
 36 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 38 <210> SEQ ID NO: 1  
 39 <211> LENGTH: 132  
 40 <212> TYPE: DNA  
 41 <213> ORGANISM: Homo sapien  
 43 <400> SEQUENCE: 1  
 44 caggggacgc accaaggatg gagatgttcc agggcgctga tgatgttggtt gattcttttt 60  
 45 aaatcttttg tgatggaaaa cttttcttcg taccacggga ctaaactgg ttatgtagat 120  
 46 tccattcaaa aa 132  
 48 <210> SEQ ID NO: 2  
 49 <211> LENGTH: 29  
 50 <212> TYPE: DNA  
 51 <213> ORGANISM: Corynebacterium diptheriae  
 53 <400> SEQUENCE: 2  
 54 ggcgctgcag ggcgctgatg atgttggtg 29  
 56 <210> SEQ ID NO: 3  
 57 <211> LENGTH: 36  
 58 <212> TYPE: DNA  
 59 <213> ORGANISM: Corynebacterium diptheriae  
 61 <400> SEQUENCE: 3  
 62 ggcgaagctt ggatccgaca cgatttcctg cacagg 36  
 64 <210> SEQ ID NO: 4  
 65 <211> LENGTH: 68  
 66 <212> TYPE: DNA  
 67 <213> ORGANISM: Artificial Sequence  
 69 <220> FEATURE:  
 70 <223> OTHER INFORMATION: Oligonucleotide

## RAW SEQUENCE LISTING

DATE: 01/08/2002

PATENT APPLICATION: US/09/756,096

TIME: 15:21:15

Input Set : A:\09756096SEQUENCELISTING.txt

Output Set: N:\CRF3\01082002\I756096.raw

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72 <400> SEQUENCE: 4
73 aattctctag atgcttcacc cgggcctgac tcgagtacta actggtacct ctctcttttt 60
74 ttcctgca 68
76 <210> SEQ ID NO: 5
77 <211> LENGTH: 60
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Oligonucleotide
84 <400> SEQUENCE: 5
85 ggaaaaaaa gaagaggtac cagtttagtac tcgagtcagg cccgggtgaa gcattctagag 60
88 <210> SEQ ID NO: 6
89 <211> LENGTH: 24
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Oligonucleotide primer
96 <400> SEQUENCE: 6
97 tcgagcaacg ttataataat gttc 24
99 <210> SEQ ID NO: 7
100 <211> LENGTH: 24
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Oligonucleotide primer
107 <400> SEQUENCE: 7
108 tcgagaacat tattataacg ttgc 24
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 35
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Oligonucleotide primer
118 <400> SEQUENCE: 8
119 aattctctag atcaggcccg ggtgaagcac tcgag 35
121 <210> SEQ ID NO: 9
122 <211> LENGTH: 25
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Oligonucleotide primer
129 <400> SEQUENCE: 9
130 tgcttcaccc gggcctgatc tagag 25
132 <210> SEQ ID NO: 10
133 <211> LENGTH: 18
134 <212> TYPE: DNA
135 <213> ORGANISM: Homo sapien
137 <400> SEQUENCE: 10
138 tgcttcaccc gggcctga 18

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## RAW SEQUENCE LISTING

DATE: 01/08/2002

PATENT APPLICATION: US/09/756,096

TIME: 15:21:15

Input Set : A:\09756096SEQUENCELISTING.txt

Output Set: N:\CRF3\01082002\I756096.raw

140 <210> SEQ ID NO: 11	
141 <211> LENGTH: 16	
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143 <213> ORGANISM: Homo sapien	
145 <400> SEQUENCE: 11	
146 ctcttctttt ttttcc	16
148 <210> SEQ ID NO: 12	
149 <211> LENGTH: 18	
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151 <213> ORGANISM: Homo sapien	
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157 <211> LENGTH: 16	
158 <212> TYPE: DNA	
159 <213> ORGANISM: Homo sapien	
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162 ctgtgattaa tagcgg	16
164 <210> SEQ ID NO: 14	
165 <211> LENGTH: 16	
166 <212> TYPE: DNA	
167 <213> ORGANISM: Homo sapien	
169 <400> SEQUENCE: 14	
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172 <210> SEQ ID NO: 15	
173 <211> LENGTH: 51	
174 <212> TYPE: DNA	
175 <213> ORGANISM: Homo sapien	
177 <400> SEQUENCE: 15	
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180 <210> SEQ ID NO: 16	
181 <211> LENGTH: 17	
182 <212> TYPE: DNA	
183 <213> ORGANISM: Homo sapien	
185 <400> SEQUENCE: 16	
186 cttctgtttt tttctc	17
188 <210> SEQ ID NO: 17	
189 <211> LENGTH: 16	
190 <212> TYPE: DNA	
191 <213> ORGANISM: Homo sapien	
193 <400> SEQUENCE: 17	
194 cttctgtatt attctc	16
196 <210> SEQ ID NO: 18	
197 <211> LENGTH: 16	
198 <212> TYPE: DNA	
199 <213> ORGANISM: Homo sapien	
201 <400> SEQUENCE: 18	
202 gttctgtcct tgtctc	16
204 <210> SEQ ID NO: 19	

## RAW SEQUENCE LISTING

DATE: 01/08/2002

PATENT APPLICATION: US/09/756,096

TIME: 15:21:15

Input Set : A:\09756096SEQUENCELISTING.txt

Output Set: N:\CRF3\01082002\I756096.raw

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205 <211> LENGTH: 29
206 <212> TYPE: DNA
207 <213> ORGANISM: Corynebacterium diptheriae
209 <400> SEQUENCE: 19
210 ggcgctgcag ggcgctgatg atgttggtg 29
212 <210> SEQ ID NO: 20
213 <211> LENGTH: 36
214 <212> TYPE: DNA
215 <213> ORGANISM: Corynebacterium diptheriae
217 <400> SEQUENCE: 20
218 ggcgaagctt ggatccgaca cgatttcctg cacagg 36
220 <210> SEQ ID NO: 21
221 <211> LENGTH: 21
222 <212> TYPE: DNA
223 <213> ORGANISM: Corynebacterium diptheriae
225 <400> SEQUENCE: 21
226 catcgtcata atttccttgt g 21
228 <210> SEQ ID NO: 22
229 <211> LENGTH: 20
230 <212> TYPE: DNA
231 <213> ORGANISM: Corynebacterium diptheriae
233 <400> SEQUENCE: 22
234 atggaatcta cataaccagg 20
236 <210> SEQ ID NO: 23
237 <211> LENGTH: 20
238 <212> TYPE: DNA
239 <213> ORGANISM: Corynebacterium diptheriae
241 <400> SEQUENCE: 23
242 gaaggctgag cactacacgc 20
244 <210> SEQ ID NO: 24
245 <211> LENGTH: 20
246 <212> TYPE: DNA
247 <213> ORGANISM: Homo sapien
249 <400> SEQUENCE: 24
250 cggcaccgtg gccgaagtgg 20
252 <210> SEQ ID NO: 25
253 <211> LENGTH: 30
254 <212> TYPE: DNA
255 <213> ORGANISM: Homo sapien
257 <400> SEQUENCE: 25
258 accggaattc atgaagccag gtacaccagg 30
260 <210> SEQ ID NO: 26
261 <211> LENGTH: 20
262 <212> TYPE: DNA
263 <213> ORGANISM: Homo sapien
265 <400> SEQUENCE: 26
266 gggcaagggtg aacgtggatg 20
268 <210> SEQ ID NO: 27
269 <211> LENGTH: 19

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## RAW SEQUENCE LISTING

DATE: 01/08/2002

PATENT APPLICATION: US/09/756,096

TIME: 15:21:15

Input Set : A:\09756096SEQUENCELISTING.txt

Output Set: N:\CRF3\01082002\I756096.raw

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270 <212> TYPE: DNA
271 <213> ORGANISM: Homo sapien
273 <400> SEQUENCE: 27
274 atcaggagtg gacagatcc 19
276 <210> SEQ ID NO: 28
277 <211> LENGTH: 39
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: Oligonucleotide primer complimentary to the
283 Escherichia coli lacZ gene
285 <400> SEQUENCE: 28
286 gcatgaattc ggtaccatgg gggggttctc atcatcatc 39
288 <210> SEQ ID NO: 29
289 <211> LENGTH: 36
290 <212> TYPE: DNA
291 <213> ORGANISM: Artificial Sequence
293 <220> FEATURE:
294 <223> OTHER INFORMATION: Oligonucleotide primer complimentary to the
295 Escherichia coli lacZ gene
297 <400> SEQUENCE: 29
298 ctgaggatcc tcttacctgt aaacgcccat actgac 36
300 <210> SEQ ID NO: 30
301 <211> LENGTH: 38
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Oligonucleotide primer complimentary to the
307 Escherichia coli lacZ gene
309 <400> SEQUENCE: 30
310 gcatggtaac cctgcagggc ggcttcgtct gggactgg 38
312 <210> SEQ ID NO: 31
313 <211> LENGTH: 38
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: Oligonucleotide primer complimentary to the
319 Escherichia coli lacZ gene
321 <400> SEQUENCE: 31
322 ctgaaagctt gttaacttat tatttttgac accagacc 38
324 <210> SEQ ID NO: 32
325 <211> LENGTH: 47
326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial Sequence
329 <220> FEATURE:
330 <223> OTHER INFORMATION: Oligonucleotide primer complimentary to the
331 Escherichia coli lacZ gene
333 <400> SEQUENCE: 32
334 gcatggtaac cctgcagggc ggcttcgtct aataatggga ctgggtg 47

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---

<210> 92

<211> 192

<212> DNA

<213> Artificial Sequence

*see item 11 on Error Summary Sheet*

<400> 92

acgagcttgc tcatgatgat catgggcgag ttagaaccaa gtgaaggcaa gatcaaacaat 60  
tccggccgca tcagcttttg cagccaattc agttggatca tgcccgggtac catcaaggag 120  
aacataatct tcggcgtcag ttacgacgag taccgctatc gtcggtgat taaggcctgt 180  
cagttggagg ag 192

Use of n and/or Xaa has been detected in the Sequence Listing.  
Review the Sequence Listing to insure a corresponding  
explanation is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

*FYI*

VERIFICATION SUMMARY

DATE: 01/08/2002

PATENT APPLICATION: US/09/756,096

TIME: 15:21:16

Input Set : A:\09756096SEQUENCELISTING.txt

Output Set: N:\CRF3\01082002\I756096.raw

L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54  
L:552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54  
L:569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55  
L:587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56  
L:588 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56  
L:952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85  
L:1030 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:1030 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:

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